

NC Marine Aquaculture Update

Chuck Weirich NC Sea Grant

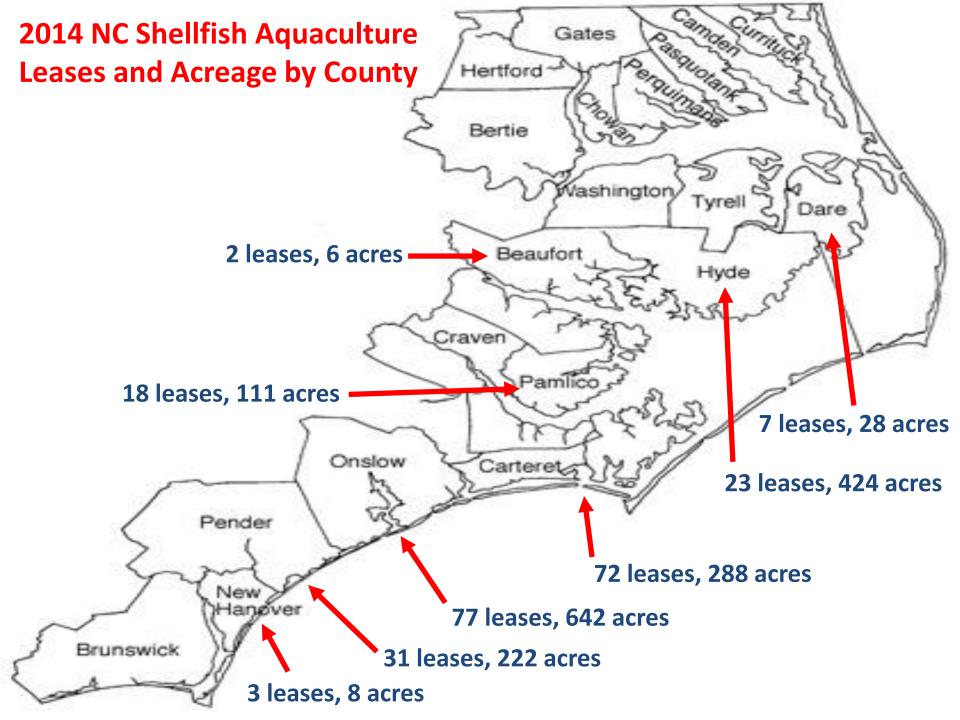
- ✓ 2014 production update and trends
- ✓ Grants and research projects
- ✓ Aquaculture development park
- ✓ Legislative update
- ✓ Upcoming meetings and workshops



233 Leases (+ 2.6%) 1,728 Acres (- 22.5%)

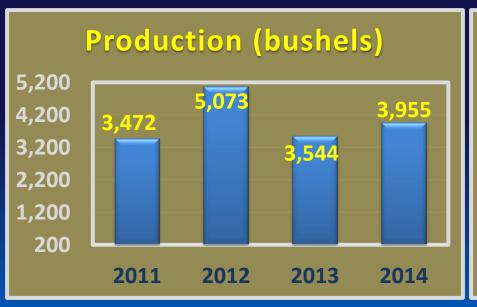








3,955 Bushels (+ 11.6%) \$223,048 (+ 3.3%)

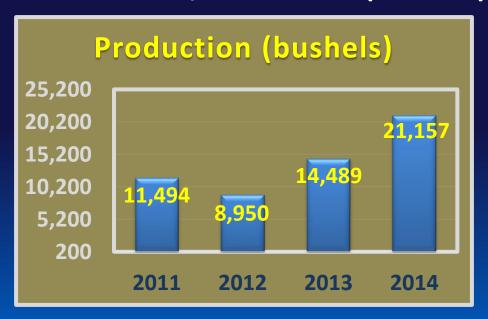


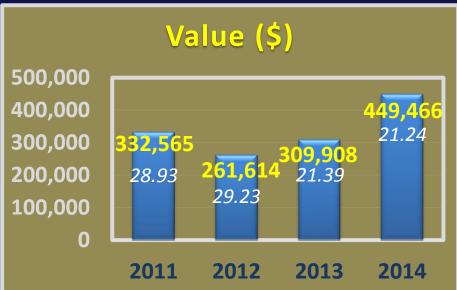




21,157 Bushels (+ 46.0%)

\$449,466 (+ 45.0%)

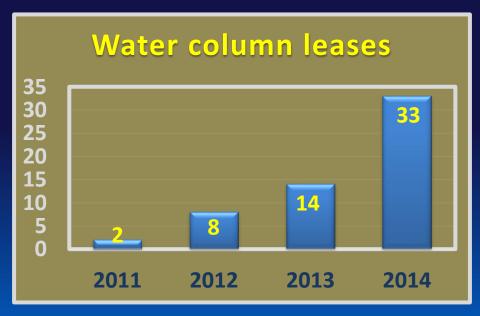


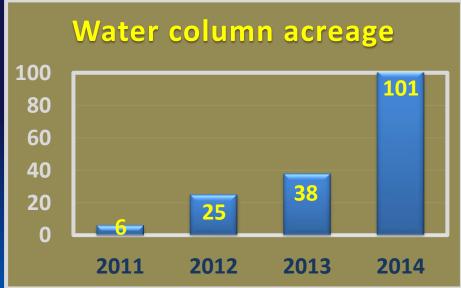


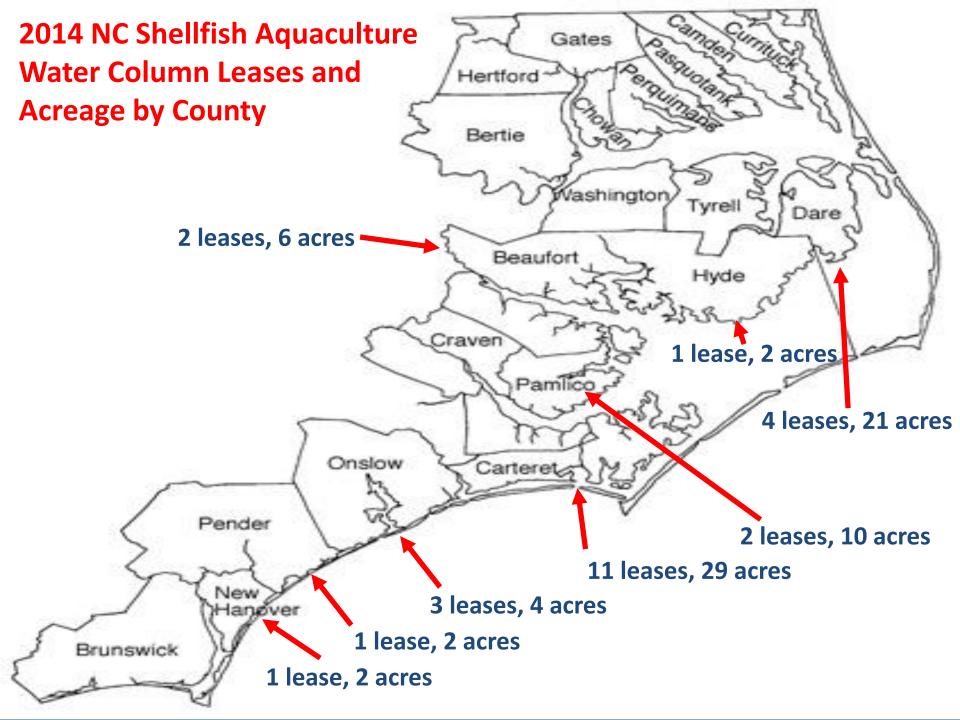
Increased number of leases and acreage devoted to water column leases

2014 – 33 leases (+ 136.0%) 101 acres (+ 166.0%)









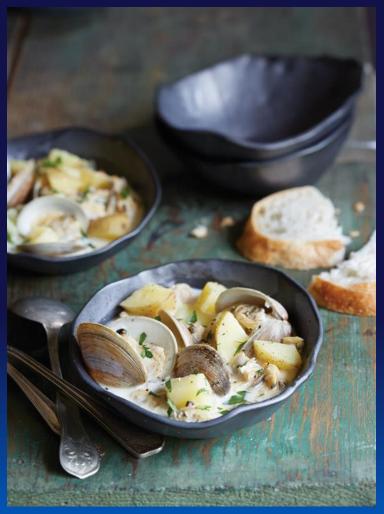
Intensive culture using containerized systems expanding

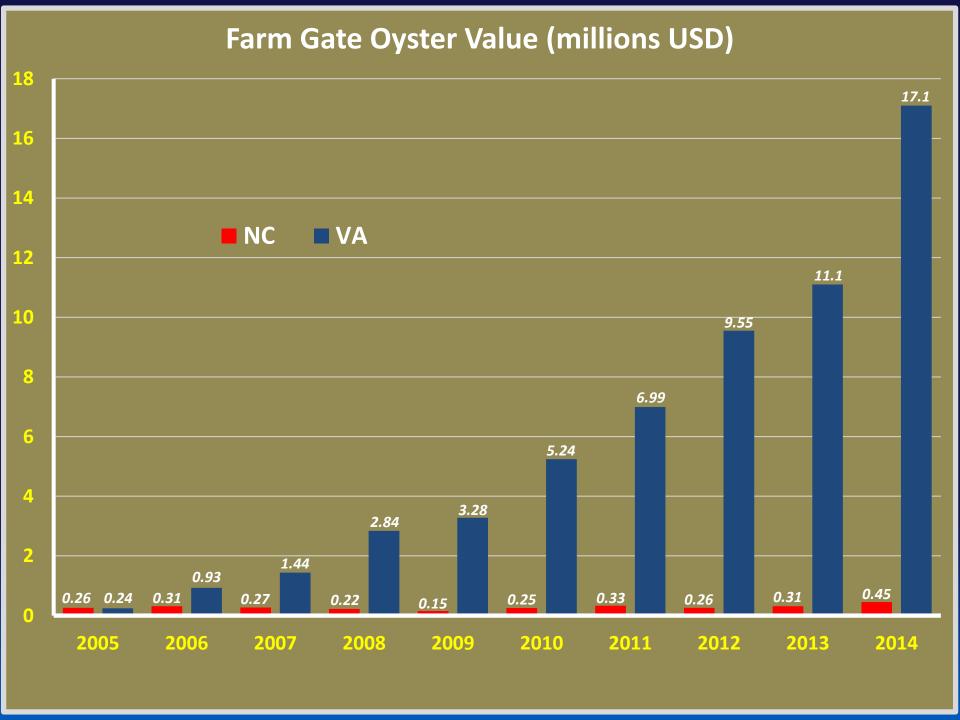


Market for cultured shellfish remains strong and is growing

Significant potential for market development, including value-added products







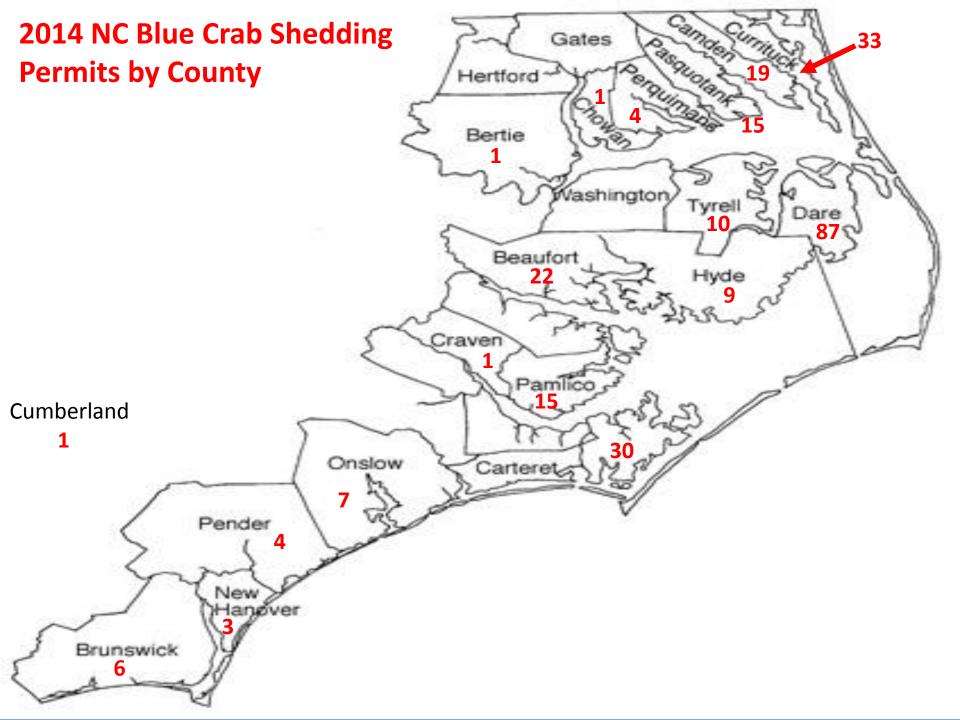
Farm Gate Shellfish Value (millions USD)

	North Carolina	Virginia
Clams	0.22	38.8
Oysters	0.45	17.1
Total	0.67	55.9



279 permits (+ 0.0%)







367,939 lbs (+ 15.7%)

\$2.14 mill (+ 2.4%)





North Carolina Crab Shedding Industry Trends and Issues

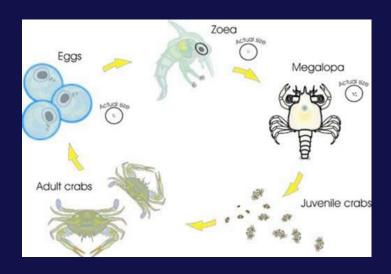




Dependence on wild "caught" product, reductions in stock Production based on seasonal availability (highly weather dependent) Strong market demand, price- timing is critical







Support research addressing reduced blue crab populations







Hatchery and nursery production of peeler crabs

Use of recirculating aquaculture systems

Alternate crops for off-season production





Research and Grants

Ami Wilbur, UNCW

Oyster strain development and evaluation

Crop diversification (sunray venus clams and bay scallops)

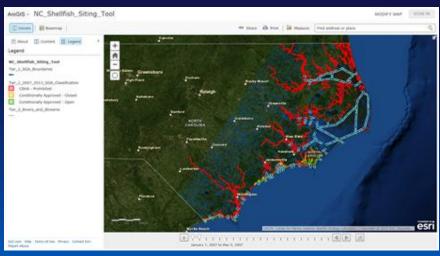






Troy Alphin, UNCW

Shellfish siting tool Lease suitability

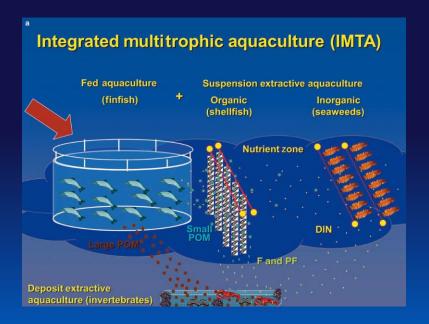


Wade Watanabe, UNCW

Black sea bass hatchery and juvenile production

Development of reduced fish meal diets

Multi-trophic aquaculture and effluent management



NC STATE UNIVERSITY

Marin Aquaculture Research Center











Mini-grant Program



Reducing calcium concentrations to extend paper shell stage of

molted blue crabs









Expansion and Diversification of the North Carolina Shellfish Aquaculture Industry

Aquaculture Extension and Technology Transfer Program

Improving Consistency and Quality of Premium Farmed Southern Oysters



- ✓ Establish demonstration facilities for shellfish aquaculture training and evaluate shellfish production Methods
- ✓ Evaluate intensive water column oyster production using different gear types and seed produced from broodstock lines developed for North Carolina
- ✓ Assess the potential of sunray venus clam culture to diversify the state's shellfish industry
- ✓ Determine shellfish market demand and develop value-added products











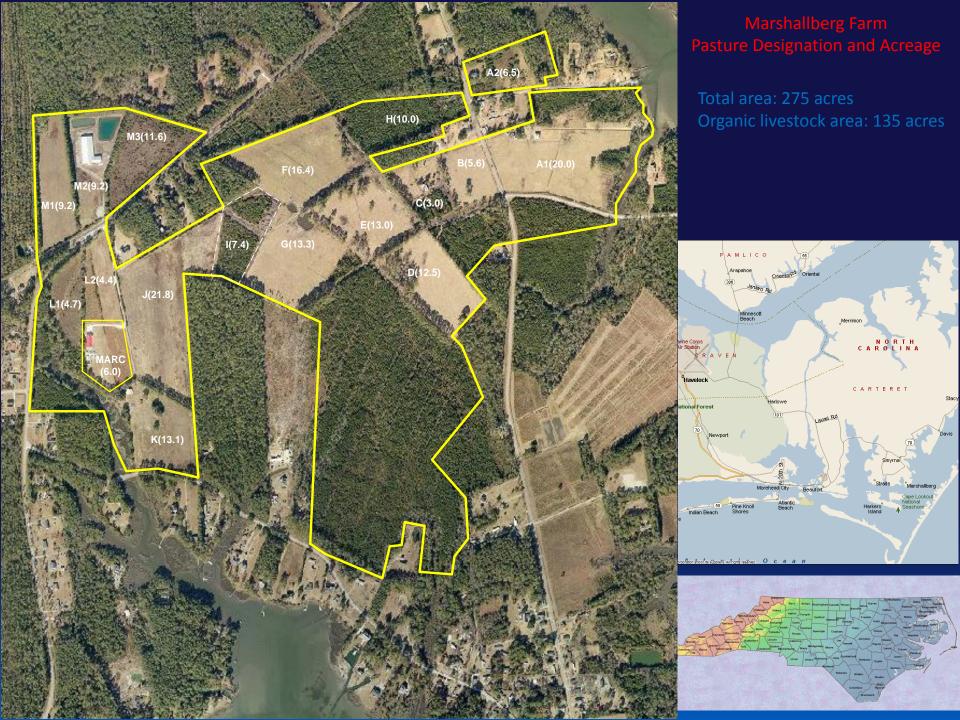
Multi -state project (LA, MS, AL, FL, SC, NC)

- ✓ Stocking density
- ✓ Strain evaluation
- ✓ Methods for fouling control





- ✓ IJ Won/Marshallberg Farm
- ✓ Carteret Co. Economic Development Council
- ✓ Marine Bio-Technologies Center of Innovation



Legislative update

- ✓ House and Senate Bills
- ✓ "Strengthen Oyster Aquaculture"
- ✓ Moving up the chain and favorable

Shellfish Aquaculture Meeting Set for Aug. 25 Provides Overview of USDA Farm Service Agency Programs

- ✓ Farm Loans
- ✓ Noninsured Disaster Assistance Program (NAP)
- ✓ Rural Energy for America Program (REAP)

6 PM Tuesday, August 25, CMAST building, Morehead City Call or email Vanda Lewis at 252-222-6307 or vanda lewis@ncsu.edu to register









